

CONFIDENTIAL

3 October 1957

P-144A

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MEMORANDUM FOR: THE RECORD

SUBJECT : P-144A, Carrier Current System Status Report

1. With the modification of the [] carrier systems completed on all but 2 of the 20 units delivered, this project is approximately complete. Accordingly, disposition of the equipment should be decided upon and a final report written. In order to expedite this process several suggestions are herein offered.

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2. Eighteen systems have been modified and each run for at least 100 hours operation. As such, they should provide relatively stable and reliable performance under most operational conditions; i.e., another 1,000 to 1,500 hours of operational transmission can safely be predicted based on 1,000 hour life tests run on 2 of the systems. The equipments are limited in their applicability to operations, however, due to a rather severe lack of audio fidelity under many AC line conditions. This distortion, coupled with an inherently low system gain, tends to limit the number or kinds of situations in which the equipment may profitably be utilized. Formal test and evaluation is expected to specifically investigate this question.

3. It is possible to extrapolate from available information, however, and state that the P-144A system when used in the proper environment can be a useful, albeit interim, audio tool. []

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4. For the future it is now apparent that a similar system can be readily designed which will overcome the deficiencies of the present equipment; particularly with respect to audio response and gain. In addition, several other features should be investigated:

- a. latching switch on the control circuit.
- b. Regulated AC power supply

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DOCUMENT NO. 16
NO CHANGE IN CLASS. L
DECLASSIFIED
CLASS. CHANGED TO: TS S 0200
NEXT REVIEW DATE: _____
AUTH: HR 70-2
DATE: _____ REVIEWER: 037169

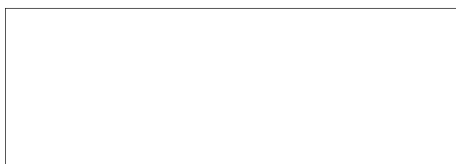
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- c. Minimized heat dissipation
- d. Reduced parasitics and harmonic generation
- e. Transistorization of all circuitry
- f. Aged components

It is felt that inclusion of the foregoing in any new equipment will provide the Agency with a more generally useful carrier system.



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Distribution:

Orig. - P-144A

1 - Chrono



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